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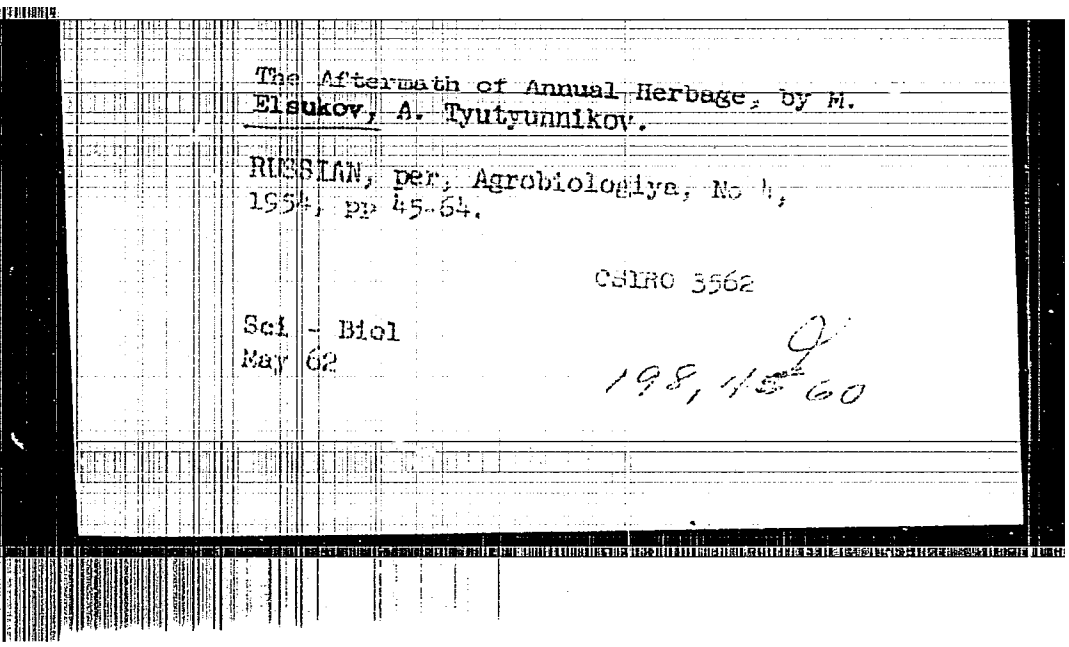

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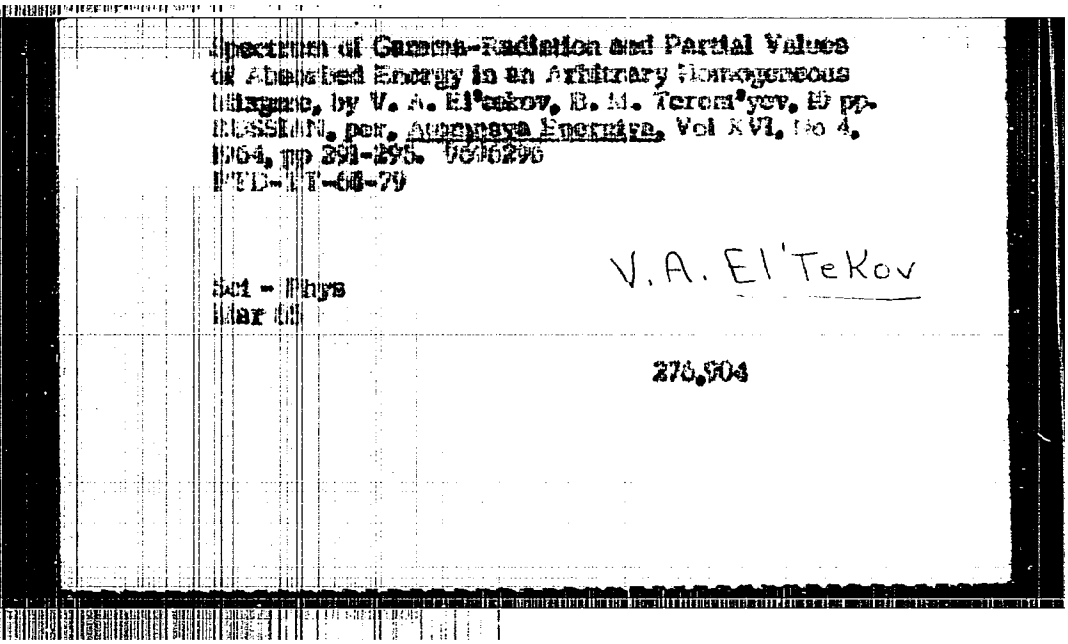

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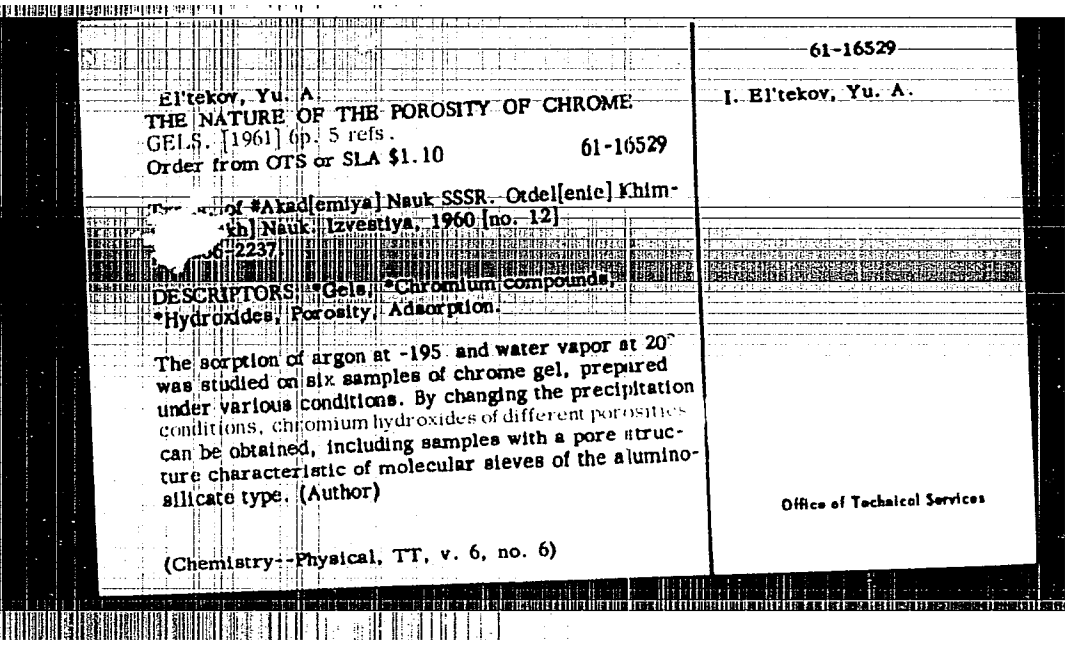

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DESCRIPTORS: *Gels, *Chromium compounds, *Hydroxides, Porosity, Adsorption.

The sorption of argon at -195° and water vapor at 20° was studied on six samples of chrome gel, prepared under various conditions. By changing the precipitation conditions, chromium hydroxides of different porosities can be obtained, including samples with a pore structure characteristic of molecular sieves of the aluminosilicate type. (Author)

(Chemistry--Physical, TT, v. 6, no. 6)

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I. El'tekov, Yu. A.

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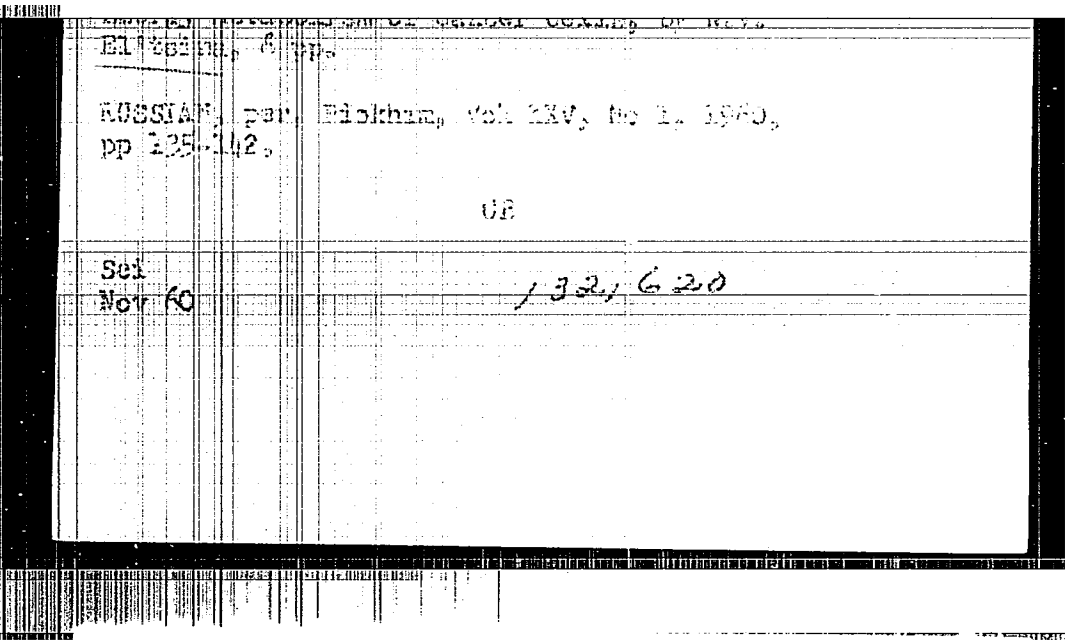

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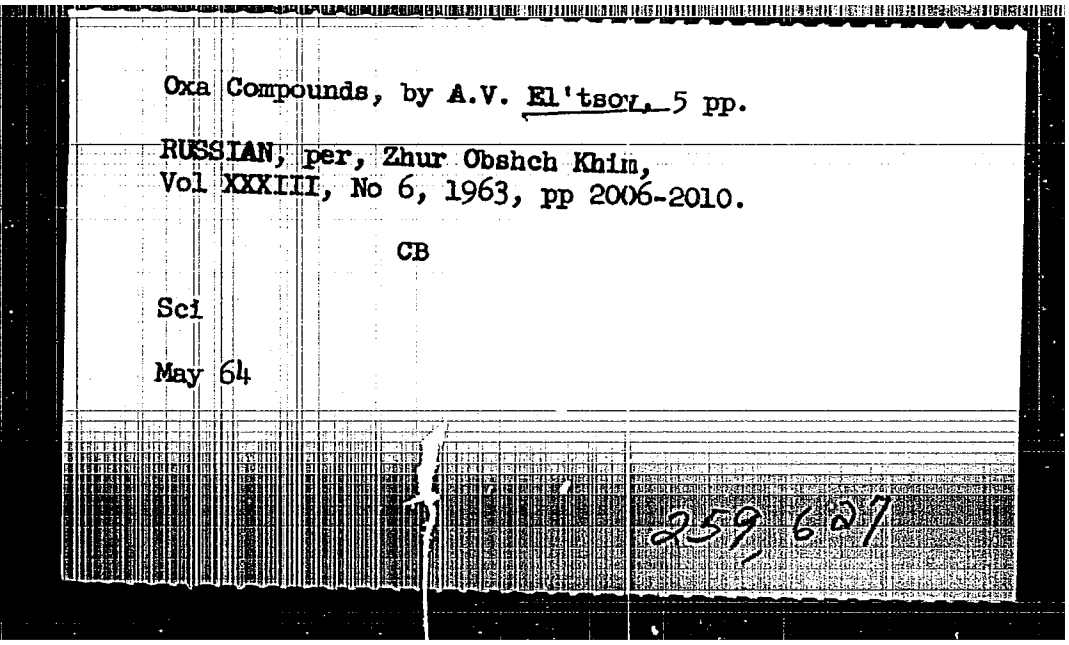

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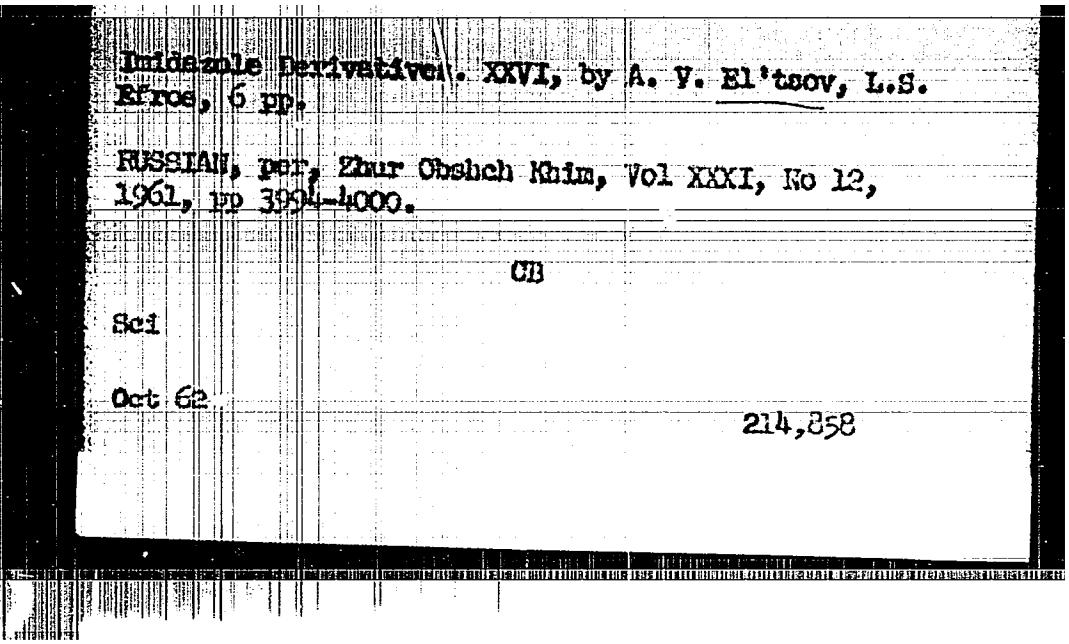

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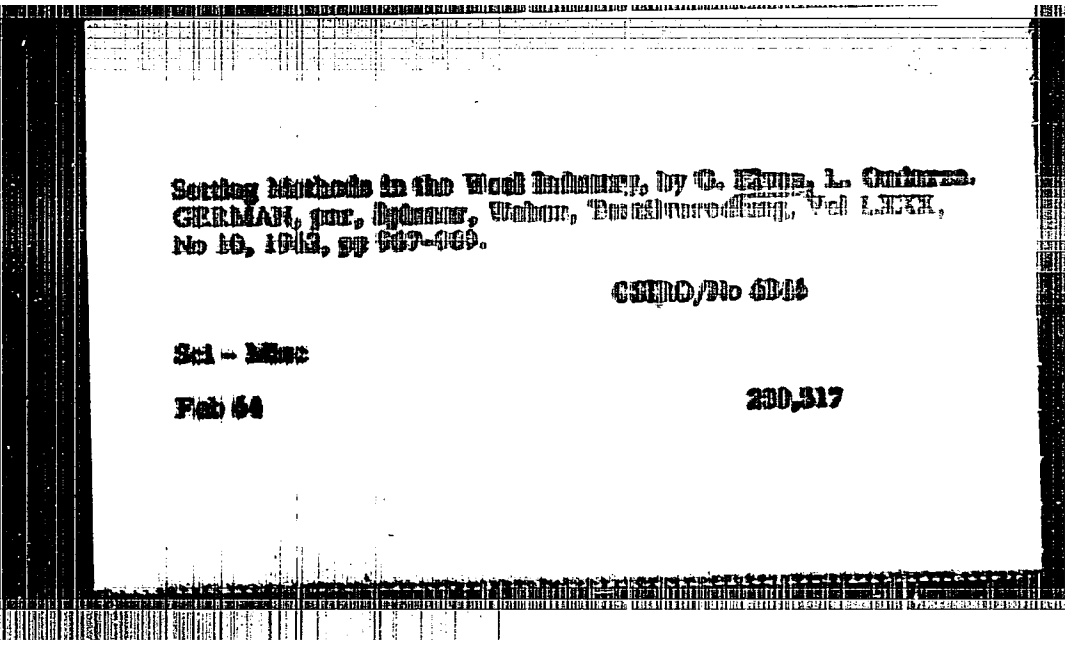

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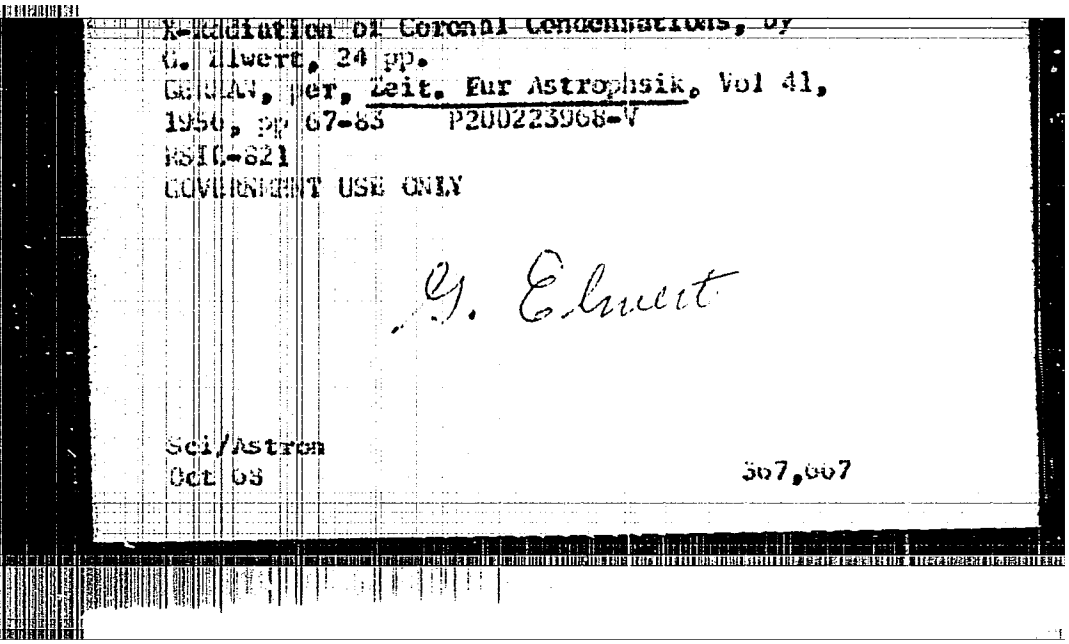

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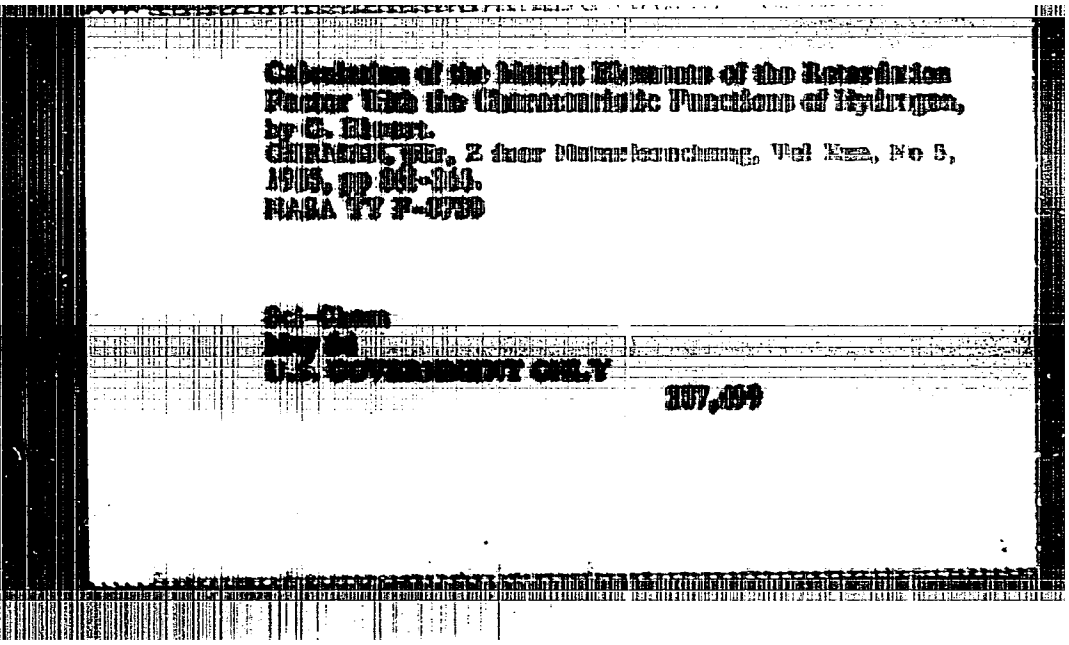

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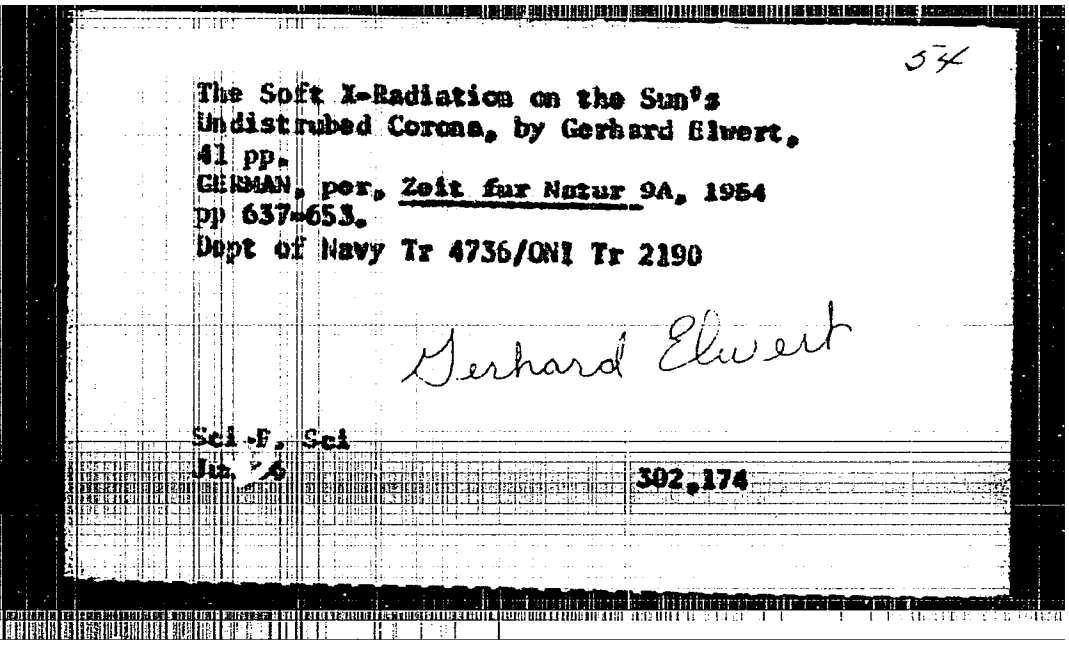

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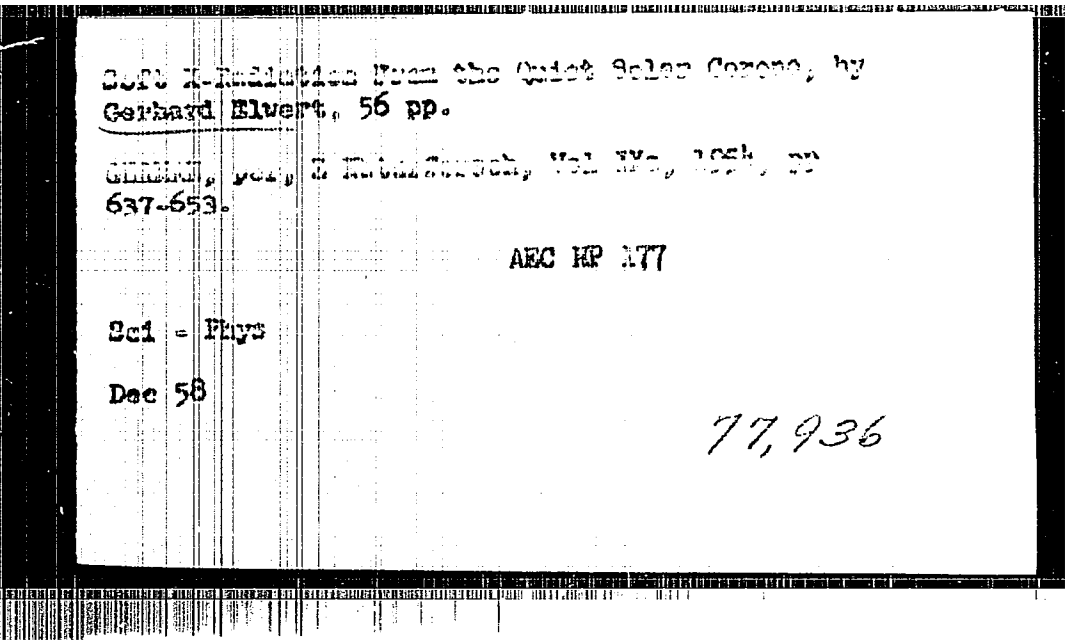

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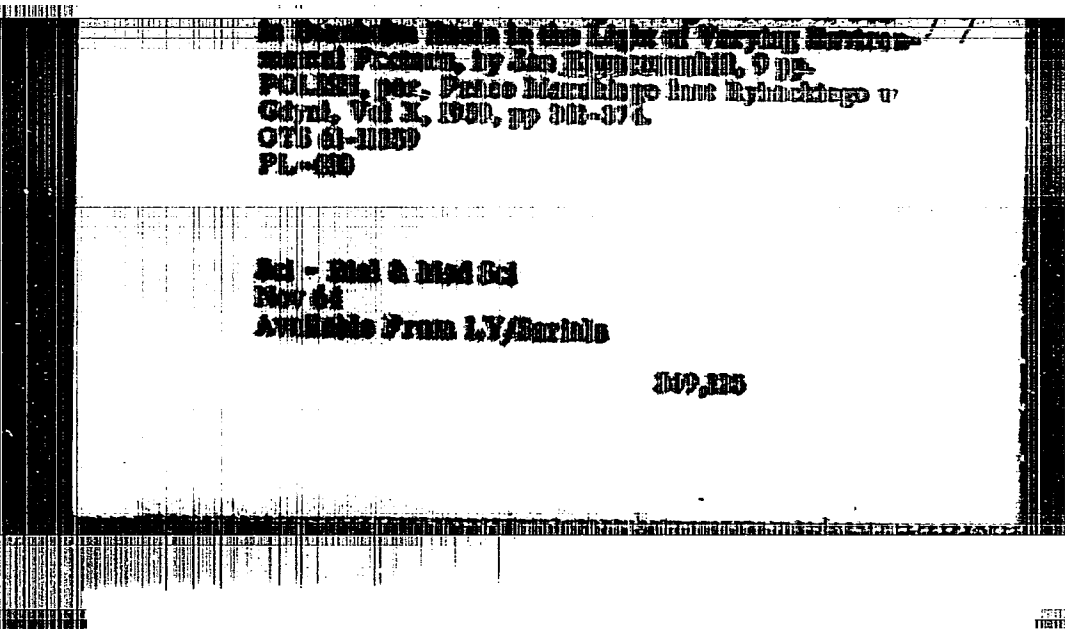

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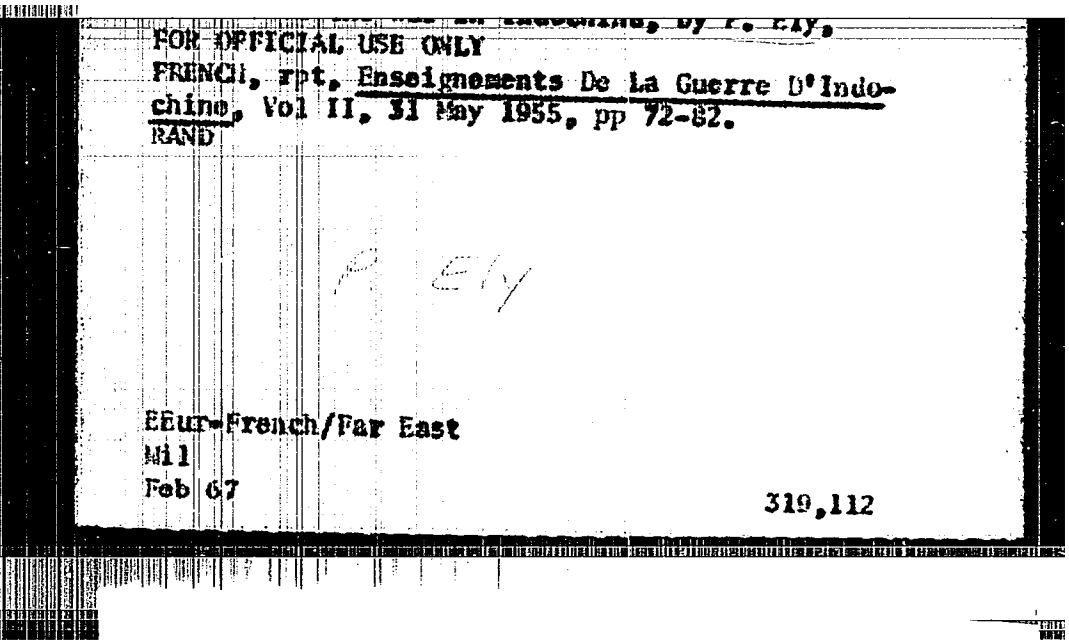

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Tetracarbocyclanes in Organic Synthesis. XIV. Synthesis of Homologs of Cinnamic Acid (α-Alkyl-β-Phenylacrylic Acids), by Yu. K. Yur'ev, G. D. Elyakov, A. N. Vybokonov, 4 pp.

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SUR LA STABILITE DU PROCESSUS DE COUPE DES METAUX (Ob Ustoichivosti Irotsecca Rezaniya Metallov) (The Stability of Metal Cutting Processes). 34p. (foreign text included). 7refs. CNRS-XXV 413.
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Trans. in French of Akademiya Nauk SSSR. Otdelenie Tekhnicheskikh Nauk. Izvestiya, 1958, no.9, p.37-52. Other translations in English are available from LC or SLA mi$3.60, ph$9.30 as 61-10675, and from LC or SLA mi$3.00, ph$6.30 as 60-23209.

DESCRIPTORS: *Metals, *Mechanical working, Stability.

(Metallurgy, TT, v. 11, no. 6)

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I. El'yasberg, M.E.
II. CNRS-XXV 413
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European Translations Centre

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ON THE STABILITY OF THE METAL CUTTING PROCESS (Ob Ustoychivosti Protesessa Rezaniya Metallov). [1961] [52]p. 7 refs.
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Trans. of Akademiya Nauk SSSR. Otdeleniye Tekhnicheskikh Nauk. Izvestiya, 1958, no. 9, p. 37-52.
Another translation is available from LC or SLA mi$3.00, ph$6.30, as 60-23209, CSIRO Trans-4193 [1960] [34]p.

For abstract see TT, v. 5, no. 3

(Machinery--Manufacturing, TT, v. 5, no. 9)

61-10675

1. Metals--Machining
2. Cutting tools--Mechanical properties
I. El'yasberg, M. Ye.

Office of Technical Services

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STABILITY OF THE METAL CUTTING PROCESS (Ob Ustoychivosti Protsessa Rezaniya Metallov) tr. by M. Slade. [1960] [34]p. (foreign text included) 7 refs. Trans. no. 4493.

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A theory of self-induced oscillations in machining is developed which makes use of the mechanisms accompanying the deformation of the metal being worked.

(Machinery--Manufacturing, TT, v. 5, no. 3)

60-23209

1. Metals--Machining
2. Cutting tools--Mechanical properties

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II. CSIRO Trans-4493
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El'yasberg, P. E. and Yastrebov, V. D.
DETERMINATION OF UPPER-ATMOSPHERE DENSITY FROM THE RESULTS OF THE OBSERVATIONS OF SPUTNIK 3 (Opredelenie Plotnosti Verkhnei Atmosfery po Rezul'tatam Nablyudenii za Poletom Tret'ego Sovetskogo Iskusstvennogo Sputnika Zemli) tr. by J. W. Palmer. Feb 61 [19p] 4refs RAE Library Trans. no. 937; AD-258 609.
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Trans. of Iskusstvennye Sputniki Zemli (USSR) 1960, v. 4, p. 18-30.
Another trans. is available from OTS or SLA $2.60 as TT-61-27991, ARCMA Trans-16-61, 21 Jul 61 [23]p.
(Abstract available)

DESCRIPTORS: *Upper atmosphere, Density, Determination, *Atmospheric sounding, *Satellites (Artificial), Orbital trajectories, Numerical analysis, (Earth Sciences--Atmosphere, TT, v. 11, no. 2) (over)

TT-63-24322

1. Title: Sputnik-3
I. El'yasberg, P. E.
II. Yastrebov, V. D.
III. RAE Trans-937
IV. AD-258 609
V. Royal Aircraft Establishment (Gt. Brit.)

Office of Technical Services

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THE DETERMINATION OF THE ORBIT FROM TWO POSITIONS. [1963] [32]p. 2 refs.
Order from OTS or SLA $3.60 63-14894

Trans. of Iskusstvennye Sputnik Zemli (USSR) 1962. v. 13. p. 3-22.

DESCRIPTORS: *Position finding, *Orbital trajectories, *Space navigation, *Rendezvous guidance, Elliptical orbit trajectories, Partial differential equations, Celestial mechanics, Numerical analysis.

The explicit guidance problem of Keplerian mechanics is discussed and analyzed in detail as to the types of motion between two positions and the existance and uniqueness of the motion. This paper is of basic interest to those interested in satellite rendezvous and intercept guidance problems. (Author)
(Engineering--Satellite Vehicles, TT, v. 10, no. 3)

I. El'yasberg, P. E.

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Determination of Upper-Atmosphere Density from the Results of Measurements of the Flight of the Third Soviet Artificial Earth Satellite, by P. E. El'yasberg, V. D. Yastrebov, 18 pp.

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APPROVED FOR RELEASE: Thursday, May 23, 2002 CIA-RDP91-00772R000100500010-1

NASA TT F-47
National Aeronautics and Space Administration.
DEPENDENCE OF SECULAR VARIATIONS OF ORBIT ELEMENTS ON THE AIR RESISTANCE. P. E. El'yasberg. November 1960. 10p. OTS price, $0.50. (NASA TECHNICAL TRANSLATION F-47. Translation from Iskusstvennyy Sputnik Zemli, no. 3, 1959, p. 54-60 (USSR))

Presented is an extension of the idea, proposed by I. M. Yatskiv, of expanding the secular variations of the orbit elements in Bessel functions of imaginary argument. This results in simple and illustrative formulas which can be used to solve many problems, such as determination of the dependence of the secular variations of the orbit elements on the values of the elements themselves, estimation of the accuracy of determination of the air density from the measured secular variations of the orbit elements, and so forth.

Copies obtainable from NASA, Washington

I. El'yasberg, P. E.
II. NASA TT F-47
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(Initial NASA distribution: 6, Astronomy; 7, Astrophysics; 16, Cosmochemistry; 17, Communications and sensing equipment, flight; 21, Geophysics and geodesy; 30, Physics, atomic and molecular; 31, Physics, nuclear and particle; 33, Physics, theoretical; 46, Space mechanics; 47, Satellites.)

NASA

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Use of Analog Computers for the Experimental Determination of the Parameters of Dynamic Links, by V. M. El'yasberg, 9 pp.

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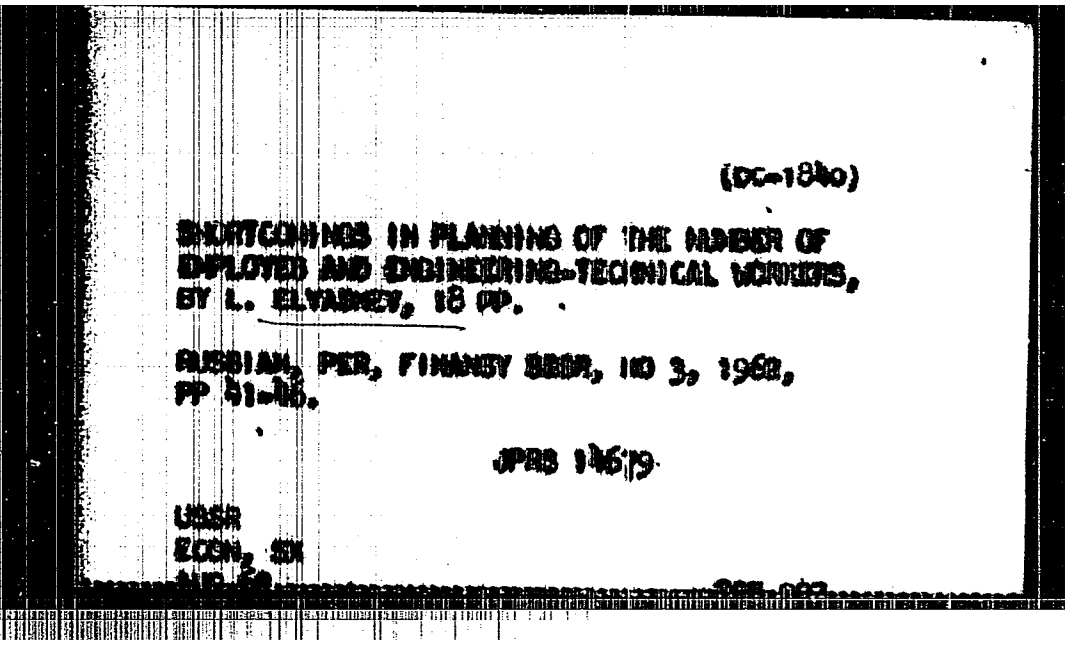

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Joint Strength of Ultrasonic Welds in Aluminium Alloys, by L. L. Silin, V. A. Kuznetsov, M. A. El'yashev, 6 pp.

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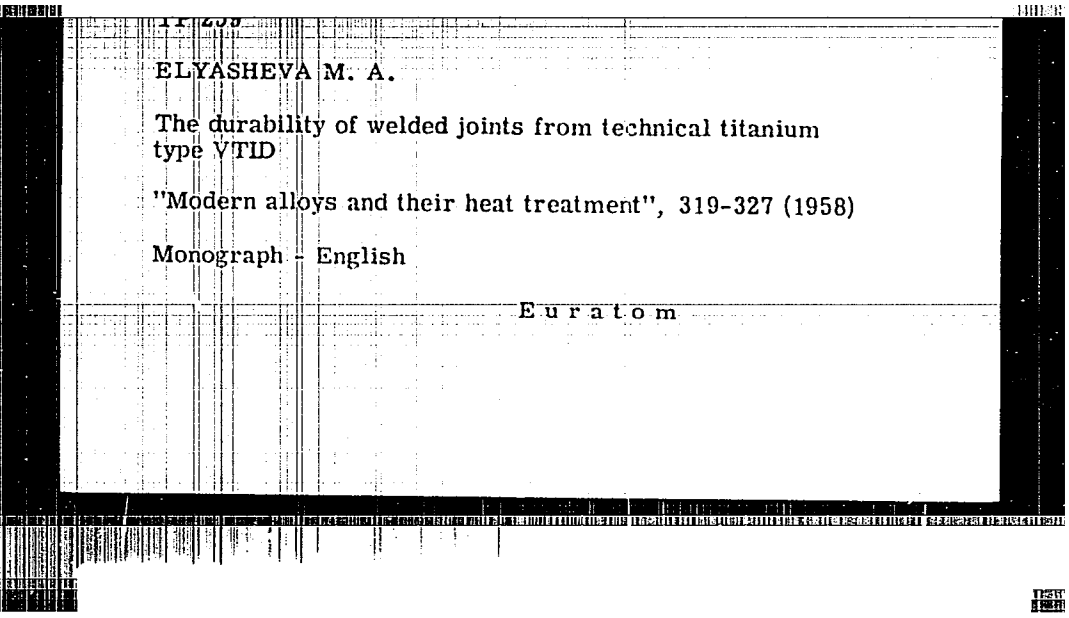

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Research of the Possibility of Applying the Accelerated Method of Determining the Fatigue Limit in Conditions of an Asymetrical Cycle of Stress and During Various Technological Processes, by M A. El'yasheva.

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A Rational Scheme of Flotation at the Coal-Cleaning Plant of the Shcherbinovka Coke and Chemical Works, by M. G. Elyasevich, I. I. Zozulya, N. V. Odintsov, 4 pp.

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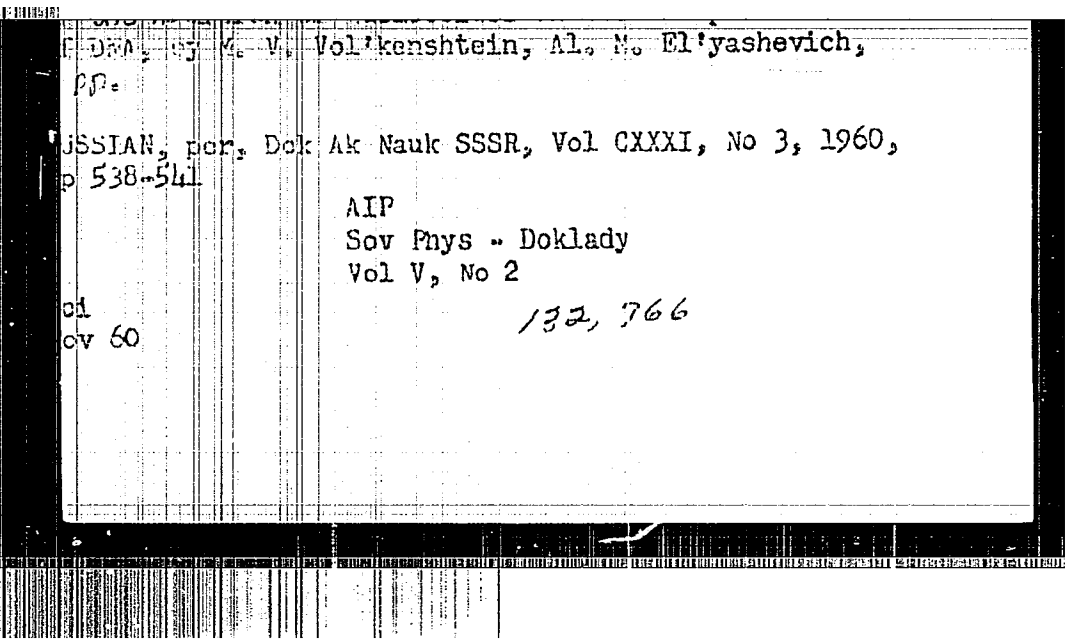

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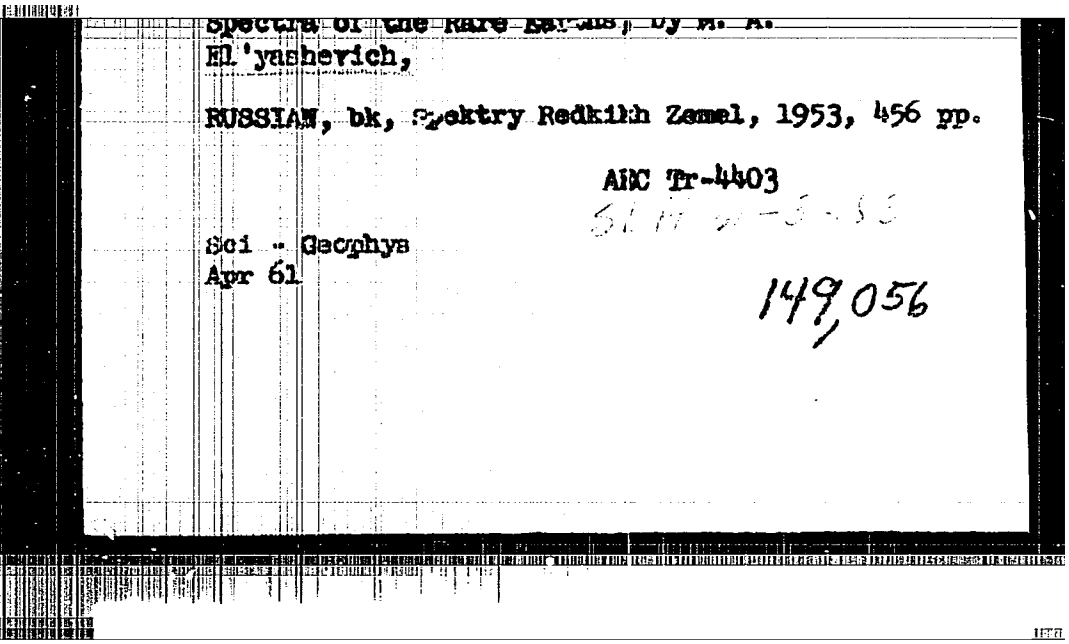

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